

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

Applicant(s): Yasushi AKIYAMA et al.

Docket No.

2002JP311

Serial No.

10/519,242

Filing Date

December 22, 2004

Examiner

WU, Ives J.

Group Art Unit

1713

Invention: **COMPOSITION FOR ANTIREFLECTIVE COATING AND METHOD FOR FORMING SAME**

SEP 16 2005

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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-124531

(43)Date of publication of application : 11.05.1999

(51)Int.Cl. C09D129/10

C09D127/12

C09D133/16

G03F 7/11

(21)Application number : 09-292051 (71)Applicant : ASAHI GLASS CO LTD

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(54) COATING COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a composition which has a low refractive index suitable for antireflecting film on a photoresist surface and can be completely removed by developer during developing of the photoresist by using a fluorine-based polymer containing a specific polymerization unit.

SOLUTION: A fluorine-based polymer to be used contains a polymerization unit represented by $-\text{CF}_2\text{CF}(\text{ORfCOOM})-$ or both the above polymerization unit and a polymerization unit represented by $-\text{CF}_2\text{CFX}-$ (Rf is a linear or branched perfluoroalkylene which may contain an ether oxygen; -COOM includes -COOH, -COOY (Y is a non-substituted or substituted ammonium ion) and -COOH.Z (Z is an amine); and X includes fluorine and chlorine). Number average molecular weight of the fluorine-based polymer is preferably 1×10^3 - 3×10^4 . A solvent to be used is water, an organic solvent or a mixture of water and an organic solvent.

LEGAL STATUS [Date of request for examination] 08.08.2002

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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